

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Daniel C. Guterman et al.
Title: Novel Multi-State Memory
Application No.: Unassigned Filing Date: Herewith
Examiner: Unassigned Group Art Unit: Unassigned
Docket No.: SNDK.138USM Conf. No.: Unassigned

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant(s) call(s) the documents listed on the enclosed Form PTO-1449 to the Examiner's attention in this patent application.

- Copies of the documents listed on the accompanying Form PTO-1449 are enclosed.
- Copies of the documents listed on the accompanying Form PTO-1449 that are not enclosed were previously submitted in Application No. 10/013,592, from which this Application claims an earlier effective filing date.
- This application has a filing date after June 30, 2003. Copies of the U.S. Patent(s) and U.S. Published Patent Application(s) documents listed on the accompanying Form PTO-1449 are not enclosed.

Citation of these documents shall not be construed as (1) an admission that the documents are prior art with respect to the invention or inventions claimed in this application, (2) a representation that a search has been made (other than as indicated by any cited document), or

Attorney Docket No.: SNDK.138USM

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

(3) an admission that the cited information is, or is considered to be, material to patentability as defined in § 1.56(b).

This information disclosure statement is submitted under 37 C.F.R. § 1.97(b) and consequently no fee should be required. The Commissioner is authorized, however, to charge any fee that may be required, or to credit any overpayment, against Deposit Account No. 502664. This form is being submitted in duplicate.

EXPRESS MAIL
LABEL NO:

EV 437668010 US

Respectfully submitted,

Gerald P. Parsons March 27, 2004
Gerald P. Parsons
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Attorney Docket No.: SNDK.138USM

Express Mail No.: EV 437668010 US

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Sheet 1 of 1

U.S. Department of Commerce, Patent and Trademark INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Atty. Docket No. SNDK.138USM Applicant(s) Guterman et al. Filing Date Herewith	Application No. Unassigned Conf. No. Unassignedq Group Unassigned				
U.S. Patent Documents							
*Examiner Initial /VN/	Document Number 6538923	Date 3/25/03	Name Parker	Class	Subclass	Filing Date If Appropriate	
U.S. Published Patent Application Documents							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
Foreign Patent Documents							
						Translation	
						Yes	No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
Examiner /Viet Nguyen/ (07/01/2008)	Date Considered	07/01/2008					
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.							

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U.S. Department of Commerce, Patent and Trademark INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Atty Docket No. SNDK.138USI	Application No. Unknown				
(Use several sheets if necessary)		Applicant(s) Guterman et al.					
		Filing Date Unknown	Group Unknown				
U.S. Patent Documents							
*Examiner Initial /VN/	Document Number 6,339,546	Date 1/15/02	Name Katayama et al.	Class	Subclass	Filing Date If Appropriate	
Foreign Patent Documents							
	Document	Date	Country	Class	Subclass	Translation	
						Yes	No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
Examiner /Viet Nguyen/ (07/01/2008)		Date Considered		07/01/2008			
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FORM PT01449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.
M-10277-3CSERIAL NO.
UNASSIGNED

APPLICANT

Hock C. So and Sau C. Wong

FILED

October 18, 2001

GROUP

Not Assigned

U. S. PATENT DOCUMENTS

•EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
/VN/		A1	4	4	6	0	9	8	2	7/17/1984	Gee et al.		
		A2	4	6	1	2	6	3	0	9/16/1986	Rosier		
		A3	4	9	6	4	0	7	9	10/16/1990	Devin		
		A4	5	1	5	1	9	0	6	9/29/1992	Sawada		
		A5	5	1	5	7	6	2	9	10/10/1992	Sato et al.		
		A6	5	2	3	9	5	0	5	8/24/1993	Fazio et al.		
		A7	5	3	9	4	3	5	9	2/28/1995	Kowalski		
		A8	5	5	2	3	9	7	2	6/04/1996	Rashid et al.		
		A9	5	5	3	2	9	6	2	7/02/1996	Auclair et al.		
		A10	5	5	8	3	8	1	2	12/10/1996	Harari		
		A11	5	6	5	2	7	2	0	7/29/1997	Aulas et al.		
		A12	5	6	8	9	4	6	5	11/1997	Sukegawa et al.		
		A13	5	7	5	1	6	3	9	5/1998	Ohsawa		
		A14	5	7	6	1	1	2	5	6/02/1998	Himeno		
		A15	5	8	3	5	4	1	3	11/10/1998	Hurter et al.		
/VN/		A16	5	9	0	9	4	4	9	6/01/1999	So et al.		

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	TRANS.? (YES/NO)	
/VN/	B1	WO	9	0	1	2	4	0	0	10/18/1999	W.I.P.O.			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

/VN/	C1	Lee, E.K.F., et al., "Error Correction Technique For Multivalued MOS Memory," <u>Electronic Letters</u> , Vol. 27, No. 15 (July 18, 1991) pp. 1321-1323
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EXAMINER	/Viet Nguyen/ (07/01/2008)	DATE CONSIDERED	07/01/2008
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Examiner: Viet Nguyen / (07/01/2008) Date Considered: 07/01/2008

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. HARI.026USS	SERIAL NO. UNASSIGNED
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		APPLICANT Daniel L. Auclair et al.	
		FILED HEREWITH	GROUP 2786

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

EXAMINER /Viet Nguyen/ (07/01/2008) **DATE CONSIDERED** 07/01/2008

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

FORM PT01449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
HARI026USSSERIAL NO.
09/431,078

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT

Daniel L. Auclair et al.

FILED

November 9, 1999

GROUP
3742

U. S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB. CLASS	FILING DATE
/VN/	A1	4	2	1	8	7	6	4	1980	Furuta et al.		
	A2	4	2	5	3	0	5	9	1981	Bell et al.		
	A3	4	4	6	0	9	8	2	1984	Gee et al.		
	A4	4	6	1	2	6	3	0	1986	Rosier		
	A5	4	7	3	3	3	9	4	1988	Giebel		
	A6	4	7	6	3	3	0	5	1988	Kuo		
	A7	4	7	7	9	2	7	2	1988	Kohda et al.		
	A8	4	7	9	9	1	9	5	1989	Iwahashi et al.		
	A9	4	8	0	9	2	3	1	1989	Shannon et al.		
	A10	5	1	2	2	9	8	5	1992	Santin		
	A11	5	1	3	2	9	3	5	1992	Ashmore, Jr.		
	A12	5	1	5	1	9	0	6	1992	Sawada		
	A13	5	1	5	7	6	2	9	1992	Sato et al.		
	A14	5	1	7	2	3	3	8	1992	Mehrotra et al.		
	A15	5	2	0	0	9	2	2	1993	Rao		
	A16	5	2	3	9	5	0	5	1993	Fazio et al.		
	A17	5	2	6	2	9	8	4	1993	Noguchi et al.		
/VN/	A18	5	2	7	8	7	9	4	1994	Tanaka et al.		

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB. CLASS	TRANS.? (YES/NO)

EXAMINER

/Viet Nguyen/ (07/01/2008)

DATE CONSIDERED

07/01/2008

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FORM FT01449 (REV. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. HARI026US5	SERIAL NO. 09/437,078
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		APPLICANT Daniel L. Auclair et al.	
		FILED November 9, 1999	GROUP 3742

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS.? (YES/NO)

EXAMINER	/Viet Nguyen/ (07/01/2008)	DATE CONSIDERED	07/01/2008
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

FORM PT01449 (REV. 8-83)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. HARI.026US3	SERIAL NO. 09/437,078
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		APPLICANT Daniel L. Auclair et al.	FILED November 9, 1999
		GROUP 3742	

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent pages, Etc.*)

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		07/01/2008

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH /VN/

Notice of References Cited		Application No. 09/437,078	Applicant(s) Auclair et al.			
		Examiner Emmanuel L. Moise	Group Art Unit 2784	Page 1 of 1		
U.S. PATENT DOCUMENTS						
	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	
A	5,341,334	8/1994	Maruyama	365	189.11	
B	5,675,537	8/1994	Bill et al.	365	185.22	
C	5,703,506	12/1997	Shook et al.	327	87	
D	5,717,632	2/1998	Richart et al.	365	185.01	
E						
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FOREIGN PATENT DOCUMENTS						
	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N						
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T						
NON-PATENT DOCUMENTS						
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)				DATE	
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Sheet 1 of 1

U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No.	Application No.		
				M-10202-5C US	09/437,078		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Applicants			
(Use several sheets if necessary)				Daniel L. Auclair et al.			
				Filing Date	Group		
				November 9, 1999	2133		
U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/VN/	1	4,827,450	May 2, 1989	Kowalski			
/VN/	2	5,070,032	Dec. 3, 1991	Yuan et al.			
/VN/	3	5,200,959	Apr. 6, 1993	Gross et al.			
	4	5,270,979	Dec. 14, 1993	Harari et al.			
Foreign Patent Documents							Translation
	Document	Date	Country	Class	Subclass	Yes	No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
Examiner	/Viet Nguyen/ (07/01/2008)	Date Considered	07/01/2008				
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Express Mail No.: EV259164755US

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

U.S. Department of Commerce, Patent and Trademark Office			Atty Docket No.	Application No.
			M-10249-14P US	10/013,592
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Applicant(s)	Confirmation No.
(Use several sheets if necessary)			Daniel C. Guterman et al.	1251
			Filing Date	Art Unit Group
			November 13, 2001	2818

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/VN/	1	5,043,940	Aug. 27, 1991	Harari			
	2	5,172,338	Dec. 15, 1992	Mehrotra et al.			
	3	5,270,979	Dec. 14, 1993	Harari et al.			
	4	5,313,421	May 17, 1994	Guterman et al.			
	5	5,315,541	May 24, 1994	Harari et al.			
	6	5,430,859	Jul. 4, 1995	Norman et al.			
	7	5,434,825	Jul. 18, 1995	Harari			
	8	5,453,955	Sep. 26, 1995	Sakui et al.			
	9	5,541,886	Jul. 30, 1996	Hashbun			
	10	5,546,351	Aug. 13, 1996	Tanaka et al.			
	11	5,602,987	Feb. 11, 1997	Harari et al.			
	12	5,629,892	May 13, 1997	Tang			
▼	13	5,687,114	Nov. 11, 1997	Khan			
/VN/	14	6,317,363 B1	Nov. 13, 2001	Guterman et al.			

Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Yes	No
/VN/	15	JP 7287984 A	1995 Jan. 31	Japan			Abstract	X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner	Viet Nguyen	(07/01/2008)	Date Considered	07/01/2008
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Express Mail No.: EU877118100US

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Application No.
		SNDK.138USE formerly (M-10249-14P US)	10/013,592
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicants	Confirmation No.
		Daniel C. Guterman et al.	1251
		Filing Date	Art Unit Group
		November 13, 2001	2818

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/VN/	1	Re. 32,401	4/1987	Beilstein, Jr. et al.			
	2	4,074,304	2/1978	Shiba			
	3	4,151,020	4/1979	McElroy			
	4	4,151,021	4/1979	McElroy			
	5	4,184,207	1/1980	McElroy			
	6	4,202,044	5/1980	Beilstein, Jr. et al.			
	7	4,271,421	6/1981	McElroy			
	8	4,302,766	11/1981	Guterman et al.			
↓	9	4,331,968	5/1982	Goeney, Jr. et al.			
/VN/	10	4,380,057	4/1983	Kotecha et al.			
/VN/	11	4,456,971	6/1984	Fukuda et al.			

Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Translation
/VN/	12	0373830	6/1990	EP			
/VN/	13	0725403A1	8/1996	EP			X
/VN/	14	6-1181168	8/1986	Japan			X
/VN/	15	1-304784	12/1989	Japan			X
/VN/	16	2-360	1/1990	Japan			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/VN/	17	K. Naruke et al., "A New Flash-Erase EEPROM Cell with A Sidewall Select-Gate On Its Source Side", IEDM 89-603, IEEE (1989), pp. 603-606.
/VN/	18	M. Kamiya et al., "EPROM Cell with High Gate Injection Efficiency", IEDM 82-741, IEEE (1982), p. 741-744.
/VN/	19	J. Van Houdt, et al., "A 5-Volt-Only Fast-Programmable Flash EEPROM Cell with A Double Polysilicon Split-Gate Structure", Interuniversity Microelectronics Center (Feb. 1991).

Examiner	/Viet Nguyen/ (07/01/2008)	Date Considered	07/01/2008
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U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Application No.
		SNDK-138USE formerly (M-10249-14P US)	10/013,592
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicants	Confirmation No.
		Daniel C. Guterman et al.	1251
		Filing Date	Art Unit Group
		November 13, 2001	2818

U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/VN/	20	4,462,090	7/1984	Iizuka			
/VN/	21	4,488,265	12/1984	Kotecha			
	22	4,561,004	12/1985	Kuo et al.			
	23	4,575,925	3/1986	Kanbara et al.			
	24	4,583,201	4/1986	Bertin et al.			
	25	4,616,402	10/1986	Mori			
	26	4,622,656	11/1986	Kamiya et al.			
	27	4,652,897	3/1987	Okuyama et al.			
	28	4,663,827	5/1987	Nakahara			
↓	29	4,677,736	7/1987	Brown			
/VN/	30	4,794,565	12/1988	Wu et al.			

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		Document	Date	Country	Class	Subclass	Translation
/VN/	31	WO 97/22123	6/1997	WIPO			Yes
/VN/	32	WO 90/12400	10/1990	WIPO			X
							X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/VN/	33	Yale Ma, et al. "A Dual-bit Split-Gate EEPROM (DSG) Cell in Contactless Array for Single-Vcc High Density Flash Memories", IEDM 94-57, IEEE (1994), pp. 57-60.
/VN/	34	G.S. Alberts et al., "Multi-Bit Storage FET EEPROM Cell", G.S. IBM Technical Disclosure Bulletin, vol. 24, No. 7A (Dec 1981), pp. 3311-3314.
/VN/	35	Takeshi Nakayama, "A 5-V-only One-Transistor 256K EEPROM with Page-Mode Erase", IEEE (Aug. 1989), vol. 24, No. 4, pp. 911-915.

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		Filing Date	Art Unit Group
		November 13, 2001	2818

U.S. Patent Documents

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/VN/	36	4,803,529	2/1989	Masuoka			
	37	4,805,142	2/1989	Bertin et al.			
	38	4,811,285	3/1989	Walker et al.			
	39	4,811,294	3/1989	Kobayashi et al.			
	40	4,821,236	4/1989	Hayashi et al.			
	41	4,862,418	8/1989	Cuppens et al.			
	42	4,943,962	7/1990	Imamiya et al.			
	43	4,990,979	2/1991	Otto			
	44	4,997,781	3/1991	Tigelaar			
↓	45	5,011,787	4/1991	Jeuch			
/VN/	46	5,017,515	5/1991	Gill			

Foreign Patent Documents

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

References (including Authors, Title, Date, Publication Pages, Etc.)		
/VN/	47	Mike McConnell, et al., "An Experimental 4-Mb Flash EEPROM with Sector Erase", IEEE (Apr. 1991), vol. 26, No. 4, pp. 484-489.
/VN/	48	Masaki Momodomi, et al., "A-4-Mb Flash EEPROM with Tight Programmed V _{sub} t Distribution", IEEE (Apr. 1991), vol. 26, No. 4, pp. 492-495.
/VN/	49	Fujio Masuoka, et al., "A 256-kbit Flash E.sup.2 PROM Using Triple-Polysilicon Technology", IEEE (Aug. 1987)

Examiner /Viet Nguyen/ (07/01/2008) Date Considered 07/01/2008

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SNDK.138USE formerly (M-10249-14P US)		10/013,592	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicants	Confirmation No.
Daniel C. Guterman et al.		1251	
Filing Date		Art Unit Group	
November 13, 2001		2818	

U.S. Patent Documents

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/VN/	50	5,028,553	7/1991	Esquivel et al.		
	51	5,029,130	7/1991	Yeh		
	52	5,045,488	9/1991	Yeh		
	53	5,057,886	10/1991	Riemenschneider et al.		
	54	5,067,108	11/1991	Jenq		
	55	5,070,032	12/1991	Yuan et al.		
	56	5,081,054	1/1992	Wu et al.		
	57	5,081,056	1/1992	Mazzali et al.		
	58	5,095,344	3/1992	Harari		
↓	59	5,147,816	9/1992	Gill et al.		
/VN/	60	5,204,841	4/1993	Chappell et al.		

Foreign Patent Documents

						Translation		
		Document	Date	Country	Class	Subclass	Yes	No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

/VN/	61	Dumitru Cioaca, et al., "A Million-Cycle 256K EEPROM", IEEE (Oct. 1987), vol. SC-22, No. 5, pp. 684-692.
/VN/	62	Cristiano Calligaro, et al., "A New Serial Sensing Approach for Multistorage Non-Volatile Memories", IEEE (1995), pp. 21-26.
/VN/	63	Min-hwa Chi, et al., "Multi-level Flash/EPROM Memories: New Self-convergent Programming Methods for Low-voltage Applications", IEDM 95-271, IEEE (1995), pp. 271-274.

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Application No.
		SNDK-138USE formerly (M-10249-14P US)	10/013,592
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicants	Confirmation No.
		Daniel C. Guterman et al.	1251
		Filing Date	Art Unit Group
		November 13, 2001	2818

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/VN/	65	5,225,361	7/1993	Kakiuchi et al.			
/VN/	66	5,247,485	9/1993	Ide			
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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U.S. Department of Commerce, Patent and Trademark Office		Atty Docket No.	Application No.
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicants	Confirmation No.
		Daniel C. Guterman et al.	1251
		Filing Date	Art Unit Group
		November 13, 2001	2818

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U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No.	Application No.			
				SNDK.138USE formerly (M-10249-14P US)	10/013,592			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Applicants	Confirmation No.			
(Use several sheets if necessary)				Daniel C. Guterman et al.	1251			
				Filing Date	Art Unit Group			
				November 13, 2001	2818			
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Examiner: Viet Nguyen/ (07/01/2008) Date Considered: 07/01/2008

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Sheet 6 of 8		
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		SNDK.138USE formerly (M-10249-14P US)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicants
		Daniel C. Guterman et al.
		Filing Date
		November 13, 2001
		Confirmation No.
		1251
		Art Unit Group
		2818

U.S. Patent Documents

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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FORM PTO-892

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Serial No.

09/113,800

GROUP ART UNIT

2784

ATTACHMENT
TO
PAPER
NUMBER

7

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Auclair et al.

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	C 4,937,787	06/26/90	Kobatake	365	185.22	
	D 4,733,394	03/22/88	Giebel	365	201	
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▼	E 4,612,630	09/16/86	Rosier	365	201	
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EXAMINER

David Ton

03/04/99

Form 892BMR2107

* A copy of this reference is not being furnished with this office action.
See Manual of Patent Examining Procedure, section 707.05(a))

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FORM PT01449
(REV. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

HARL026US4

SERIAL NO.

09/113,800

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)



APPLICANT

DANIEL L. AUCLAIR et al.

FILED

July 8, 1998

GROUP

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DT	A4	4	6	1	2	6	3	0	1986	Rosier	365	201	
DT	A5	4	7	3	3	3	9	4	1988	Giebel	714	211	
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DT	A7	4	7	7	9	2	7	2	1988	Kohda et al.	714	721	
DT	A8	4	7	9	9	1	9	5	1989	Iwahashi et al.	365	185.27	
DT	A9	4	8	0	9	2	3	1	1989	Shannon et al.	365	201	
DT	A10	5	1	2	2	9	8	5	1992	Santin	365	185.19	
DT	A11	5	1	3	2	9	3	5	1992	Ashmore, Jr.	365	185.19	
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DT	A13	5	1	5	7	6	2	9	1992	Sato et al.	365	201	
DT	A14	5	1	7	2	3	3	8	1992	Mehrotra et al.	365	185.03	
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DT	A16	5	2	3	9	5	0	5	1993	Fazio et al.	365	185.11	
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EXAMINER

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FORM PT01449
REV. 8-83)

U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT

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APPLICANT

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Davidson

DATE CONSIDERED

11/30/99

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FORM PT01449
(REV. 8-83).U. S. DEPARTMENT OF COMMERCE
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HARI-2602

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INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT

Daniel L. Auclair, et al.

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U. S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILED DATE
<i>TS</i>	A	5 2 3 9 5 0 5	8/24/93	Fazio, et al.			
<i>TS</i>	B	5 1 5 1 9 0 6	9/29/92	Sawada			
<i>TS</i>	C	4 7 9 9 1 9 5	1/17/89	Iwahashi, et al.			
<i>TS</i>	D	4 7 3 3 3 9 4	3/22/88	Giebel			
<i>TS</i>	E	4 4 6 0 9 8 2	7/17/84	Gee, et al.			
<i>TS</i>	F	4 2 5 3 0 5 9	2/24/81	Bell, et al.			
<i>TS</i>	G	4 8 0 9 2 3 1	2/28/89	Shannon, et al.			
<i>TS</i>	H	4 6 1 2 6 3 0	9/16/86	Rosier			
<i>TS</i>	I	4 7 7 9 2 7 2	10/18/88	Kohda, et al.			
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANS. (YES/NO)

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KAMINER	DATE CONSIDERED
<i>TS ER</i>	9-15-95

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FORM PTO-892 (REV. 2-92)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		SERIAL NO.	GROUP ART UNIT	ATTACHMENT TO PAPER NUMBER	5
				08/406,671	2306		
NOTICE OF REFERENCES CITED				APPLICANT(S) Auclair et al.			

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*	DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
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✓	B 5132935	7/92	Ashmore, Jr.	365	185	4/16/90
✓	C 53131427	5/94	Schrock et al.	365	185	9/20/91
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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T	ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

FORM PTO-892
(REV. 2-92)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

NOTICE OF REFERENCES CITED

SERIAL NO.

08/406,677

GROUP/ART UNIT

2306

ATTACHMENT
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NUMBER

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APPLICANT(S)

Auctan et al.

U.S. PATENT DOCUMENTS

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A	5 157 629	10/92	Sato et al.	365	201	
B						
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	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. PP DWG. SPEC.
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886A30 Sheet 1 of 1

FORM PTO1449 (REV. 8-83)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. HARI-2600	SERIAL NO. NOT-ASSIGNED 88603	
MAIL INFORMATION DISCLOSURE CITATION (May use several sheets if necessary) 10 20 1992			APPLICANT DANIEL L. AUCLAIR ET AL				
			FILED May 20, 1992	GROUP NOT ASSIGNED 2511			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CLASS	SUBCLASS	FILED DATE
PV	A1 4 7 9 9 1 9 5	1989	IWAHASHI ET AL		365	185	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)							
EXAMINER Phillip Valen / P.V.H.		DATE CONSIDERED 124/94					
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 607; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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TO SEPARATE, HOLO TOP AND BOTTOM EDGES, SNAP-APART AND DISCARD CARBON

FORM PTO-802 (REV. 2-92)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		SERIAL NO.	GROUP ART UNIT	ATTACHMENT TO PAPER NUMBER	
NOTICE OF REFERENCES CITED				886030	2511		
				APPLICANT(S)	Auclair et al		
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*	DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE	
V	A 4 61 2 630	9/1986	Rosier	365	201		
V	B 4 779 272	10/1988	Kchala et al	365	2C1X		
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A copy of this reference is not being furnished with this office action. (See Manual of Patent Examining Procedure, section 707.05 (b).)							
ALL REFERENCES CITED ARE HEREBY DISCARDED AND NOT MAILED THROUGH./VN/							

U.S. Department of Commerce, Patent and Trademark Office

A Docket No.

Serial No.

M-3115-1P-US

Unknown

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Applicants

(Use several sheets if necessary)

Hock C. So and Sau C. Wong

Filing Date

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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		Examiner David Lam	Group Art Unit 2818	Page 1 of 1	
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•	DOCUMENT NO.	DATE	NAME		CLASS
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09/680,797

Applicant(s)/Patent Under
Reexamination
SO ET AL

Examiner

David Lam

Art Unit
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Page 1 of 1

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NON-PATENT DOCUMENTS

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**APS encompasses an electronic search i.e. text, image, and Commercial Databases.

U.S. Patent and Trademark Office

PTO-892 (Rev. 03-98)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

PT01449
EV. 8-83)U. S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
HARI176US2SERIAL NO.
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INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT

Hock C. So and Sau C. Wong

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U. S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
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	A2 4 6 1 2 6 3 0	9/16/1986	Rosier	—	—	
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NOT FOUND	B3 WO 9 0 0 1 2 4 0 0	10/18/1990	W-I, P-O	—	—	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

NOT FOUND	C1 Lee, E.K.F., et al., "Error Correction Technique For Multivalued MOS Memory," <u>Electronic Letters</u> , Vol. 27 No. 15 (July 18, 1991) pps. 1321-1323

EXAMINER	DATE CONSIDERED
<i>Sal Y</i>	01/01

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /VN/

U.S. Department of Commerce, Patent and Trademark Office					Atty Docket No.	Serial No.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)					M-10277-2C US	09/680,797	
APR 17 2001 U.S. Patent and Trademark Office					Applicant(s)	Hock C. So, Sau C. Wong,	
					Filing Date	Group	
					October 6, 2000	2818	
U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>DL</i>							
Foreign Patent Documents							
		Document	Date	Country	Class	Subclass	Translation
<i>DL</i>	B1	WO9012400	10/18/90	PCT			Yes <input type="checkbox"/> No <input type="checkbox"/>
<i>DL</i>							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>DL</i>	C1	Lee, E.K.F., et al., (July 18, 1991) "Error Correction Technique for Multivalued MOS Memory," <i>Electronic Letters</i> , 27(15):1321-1323					
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Notice of References Cited

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Page 1 of 1

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B	US- -				
C	US- -				
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J	US- -				
K	US- -				
L	US- -				
M	US- -				

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N	- -				
O	- -				
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Q	- -				
R	- -				
S	- -				
T	- -				

NON-PATENT DOCUMENTS

Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)

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